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ABSTRACT

This publication which is a supplement to "Research in Nursing: 1955-1968, Research Grants", lists and briefly describes research projects funded by the Division of Nursing during the years 1969 through 1972. For each project, the following information is provided: title; grant number; names and addresses of investigators; period of support; brief description of project; and whenever possible, a chronological list of citations to publications which resulted from the research. Research projects entered in this publication are grouped in three sections: Organization, distribution, and delivery of nursing services (25 projects); Recruitment, selection, education and characteristics of the nurse supply (twelve projects); and Research development (including conferences, development of research tools, and faculty development.) (Sixteen projects.) A Subject Index and a Project Personnel Index are included. (KP)

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RESEARCH GRANTS

Projects supported with funds administered by the Division of Nursing

DHEW Publication No. (NIH) 73-489

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service National Institutes of Health
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Washington, D.C. Issued 1973

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FOREWORD

This publication, which supplements *Research in Nursing: 1955—1968, Research Grants,* lists and briefly describes research projects funded by the Division of Nursing during the years 1969 through 1972. It is prepared to apprise the scientific community of the research efforts that have been undertaken across the Nation.

As more and more nurses have become involved in the research process, its concepts and designs have become more sophisticated. Yet the objective remains the same: improved patient care and patient well-being through systematic study of problems in nursing education, practice, and administration. To achieve an increase in scientific knowledge in these areas, the Division of Nursing seeks to foster, on a nationwide basis, high quality research of value to nursing.

JESSIE M. SCOTT
Assistant Surgeon General
Director
Division of Nursing

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INTRODUCTION

In nursing, as in all professions that deal with health and well-being, research is vital to advancement and growth. This record of the research projects supported by Division of Nursing grants from 1969 through 1972 will help to chart the course for future scientific investigations to improve nursing care of patients.

Research projects supported by the Division from 1955 through 1968 are listed in *Research in Nursing, 1955–1968, Research Grants.**

As in the above-named publication, the projects described in this 1969–72 supplement are grouped in three sections as follows:

A. Organization, distribution, and delivery of nursing services.

B. Recruitment, selection, education, and characteristics of the nurse supply.

C. Research development (including conferences, development of research tools, and faculty development).

For each project, the following information is provided: title; grant number; names and addresses of investigators; period of support; brief description of project; and, wherever possible, citations to publications that resulted from the research.

The citations are listed chronologically, by date of publication, following description of the project. As this supplement goes to press, other publications resulting from the research projects are being prepared and many more are anticipated.

This supplement contains an index of subject matter and an index of project personnel.

Details of the projects and further information about publications resulting from the research may be obtained by writing directly to the investigators.

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* Public Health Service Publication No. 1356, revised 1969. Washington: U.S. Government Printing Office. 91 pages.

SECTION A

Organization, Distribution, and Delivery of Nursing Services

(Research Projects A105—A129)

A105. Measurement of Microcirculation in Skin (NU 00304).

INVESTIGATORS: Kolthoff, Norma, R.N., Ph.D., Professor of Nursing; and Rich, Rosemary, R.N., Ph.D., Associate Professor of Nursing; Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland, Ohio.

This study developed techniques for direct visualization of microcirculation in various areas of human skin, and established criterion measures for the assessment of vascular character of skin in several different groups of persons. The study also explored a basis for the assessment of nursing intervention designed either to affect systemic blood flow or to increase the functional capacity of tissues by altering local blood flow.

DATES: December 1968—January 1971.

PUBLICATIONS:

Kolthoff, Norma J., and Rich, Rosemary. *Observation of Microcirculation in Human Skin.* Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland, Ohio, 1971. 40 pp.

A106. The Nurse Specialist and Hospital Organization (NU 00323).

INVESTIGATOR: Barrett, Jean, R.N., M.A., formerly Professor of Nursing, Yale University School of Nursing, New Haven, Connecticut.

PUBLICATIONS:

This study explored (1) the way in which a clinical nurse specialist might function in a practitioner role, and (2) her place within the organizational structure of the general hospital. Measures were developed to test the effect of different patterns of organization on the functioning of the specialist practitioner.

DATES: February 1969—June 1971.

Barrett, Jean. "The Nurse Specialist Practitioner: A Study," *Nursing Outlook*, 20(8): 524–527, August 1972.

A107. An Exploratory Study of a New Role in Nursing (NU 00327).

INVESTIGATORS: Madden, Barbara W., R.N., M.S., Director of Nursing; David, Janis H., R.N., M.A., Associate Director of Nursing; and Hamilton, Constance B., R.N., M.S., Research Associate; Rancho Los Amigos Hospital, Downey, California.

This was an exploratory study to develop a method of describing the role of the nursing care consultant and of assessing her effect on the nursing care of a rehabilitation hospital population. Data related to these nurses with baccalaureate and higher degrees were collected through group meetings with the project director, through data-gathering forms, and through rankings by co-consultants and administrative personnel.

DATES: December 1968—May 1971.

PUBLICATIONS:

Hamilton, Constance B.; Pratt, Mary K.; and Groen, Marion. "The Nurse's Active Role in Assessment," *Nursing Clinics of North America*, 4:249–262, June 1969.

A108. Social Consequences of Select Patterns of Maladaptive Behavior (NU 00344).

INVESTIGATORS: Dambacher, Beatrice M., D.N.Sc., Chairman, Graduate Program in Psychiatric Nursing, School of Nursing; and Adams, William B., M.A., Professor, Theatre Arts Department; University of California, Los Angeles.

This was an exploratory grant in the area of psychodrama. Two films were produced depicting nonclinical aspects of maladaptive behavior. They were subjected to preliminary trials with a lay audience, and assessed with regard to audience reaction in an effort to explain and modify social reinforcement contingencies in the nurse-patient interaction situation.

DATES: June 1969—January 1971.

PUBLICATIONS (MOTION PICTURES):

"STALEMATE." (Depicts a warm and talented health worker who becomes an unwitting participant in the depressive life style.) Series: *Social Consequences of Select Patterns of Maladaptive Behavior*. 18 minutes, sound-color, 16 mm. MP. School of Nursing, Center for Health Sciences, University of California, Los Angeles. 1970.

"TWO-HANDED SOLITAIRE." (Portrays a depressive life style of the wife of a suburban, middle-aged couple.) Series: *Social Consequences of Select Patterns of Maladaptive Behavior*. 12 minutes, sound-color, 16 mm. MP. School of Nursing, Center for Health Sciences, University of California, Los Angeles. 1970.

A109. A Nurse's Study of Care of Dying Patients (NU 00352).

INVESTIGATOR: Wald, Florence S., R.N., M.N., M.S., Research Associate in Nursing, Yale University School of Nursing, New Haven, Connecticut.

This exploratory study considered the problems of behaviors that evolve around the needs and wants of dying patients and their families, and it attempts to determine patterns of patient care to meet these needs and wants.

DATES: October 1969—September 1971.

PUBLICATIONS:

Wald, Florence S. "Development of an Inter-Disciplinary Team To Care for Dying Patients and Their Families," *1969 ANA Clinical Sessions*, pp. 47–55. New York: Appleton-Century-Crofts, Inc. 1970.

A110. The Development of a Measure of Role Concept (NU 00365).

INVESTIGATOR: Berkowitz, Norman H., Ph.D., Associate Professor; and Malone, Mary F., M.S., Research Associate; Department of Psychology, Boston College, Boston, Massachusetts.

This study was concerned with assessment of the ideal role concept in three areas: medical-surgical nursing, public health nursing, and psychiatric nursing. The influence of various elements of baccalaureate nursing education on the development and change of the role category was measured within a framework of psychological role theory.

DATES: July 1969—August 1972.

PUBLICATIONS: None.

A111. Nursing With Chronically Ill Psychiatric Outpatients (NU 00370).

INVESTIGATORS: Slavinsky, Ann T., R.N., M.S.N., Assistant Professor; and Romoff, Vivian I., R.N., B.S.N., Assistant in Research; Yale University School of Nursing, New Haven, Connecticut.

This study tests the hypothesis that action-oriented nursing services dealing explicitly with patients' perceived needs will be more effective with respect to certain outcomes than a more traditional group therapy approach for chronically ill, lower socioeconomic psychiatric outpatients.

DATES: June 1970—December 1975.

PUBLICATIONS: None.

A112. Commune Health Education (NU 00376).

INVESTIGATOR: Fleshman, Ruth P., R.N., M.S., Assistant Professor, School of Nursing, University of California, San Francisco.

This study is designed to identify health beliefs, attitudes, practices, and problems of commune youth, especially as related to their living arrangements. Development of health education approaches to primary illness prevention in young adults focuses on young adult health in communes as well as those living in other than communal circumstances.

DATES: June 1970—August 1973.

PUBLICATIONS: None.

A113. Psychosocial Contingencies of the Pain Experience (NU 00387).

INVESTIGATORS: Jacox, Ada K., R.N., Ph.D., Associate Professor, College of Nursing; and Stewart, Mary L., R.N., M.S., Research Assistant, Department of Psychology; University of Iowa, Iowa City.

This exploratory study described and analyzed the differential meaning of pathological pain to patients, nurses' attitudes toward pain and toward patients'

experiences of it, and nurse-patient interaction during the course of the nurses' attempt to assess and alleviate pain.

DATES: March 1971—June 1973.

PUBLICATIONS: None.

A114. Sympathetic Responses of the Uterine Circulation (NU 00390).

INVESTIGATORS: Fuller, Ellen O., R.N., Ph.D., Assistant Professor of Physiology; and Manning, John W., Professor of Physiology; Emory University, Atlanta, Georgia.

This study investigates the effects that stimulation of the sympathetic nerves to the uterine blood vessels have on uterine circulation and on the fetus. Also being studied are the effects of maximum and/or minimum sympathetic activi y on fetal well-being, together with effects of changes of gas tension and temperature of blood perfusing the uterus.

DATES: March 1971—February 1974.

PUBLICATIONS: None.

A115. Hospital Teaching of Patients With Heart Failure (NU 00399).

INVESTIGATORS: Kaelin, Patricia K. Buchholz, R.N., M.S.N., Research Associate in Nursing; and Stokes, Shirlee A., R.N., M.S.N.; Department of Nursing, Faculty of Medicine, Columbia University, New York.

This study seeks to determine if an intensive in-hospital teaching program for patients with congestive heart failure increases the patients' adherence to a medical regime after discharge from the hospital and reduces the number and length of subsequent hospitalizations. A 2-year followup of experimental and control groups will provide the data necessary to determine the effectiveness of the program.

DATES: May 1971—October 1974.

PUBLICATIONS: None.

A116. A Study of the Communicative Interaction Process (NU 00401).

INVESTIGATORS: Daubenmire, M. Jean, R.N., M.S.N., Assistant Professor, School of Nursing, Ohio State University; and La Rue, Robert K., M.S., Associate Professor, Engineering Graphics, The Ohio State University Research Foundation; Columbus.

This study seeks to develop a methodology to examine the communicative interaction process within a theoretical frame of reference based on concepts of adaptive systems and certain principles from communication theories. Patterns of communication are identified, and the data are used to generate hypotheses about patterns of interaction of different multiperson systems within a complex setting and their effects on hospitalized patients.

DATES: May 1971—April 1974.

PUBLICATIONS: None.

A117. A Descriptive Study of the Patient-Hospital Interface (NU 00405).

INVESTIGATORS: Butts, Stanley V., Ph.D., Assistant Professor of Nursing Education; and Larson, Lily, R.N., M. Ed., Associate Professor of Nursing Education; University of Kansas Medical Center, Kansas City, Kansas.

By means of direct, non-participant observations, this study seeks to characterize the hospital experience of the patient and of the nurse in situations involving both team and primary nurse approaches to patient care, and to assess how each of these roles affects nursing personnel satisfaction. It also seeks to determine patient perception of the nurse working in these differing roles.

DATES: June 1971—August 1976.

PUBLICATIONS: None.

A118. Experimental Trials of the Nursing Process (NU 00455).

INVESTIGATOR: Hadley, Betty Jo., R.N., Ph.D., Professor of Nursing, School of Nursing, The University of Colorado, Denver.

This is an experimental study to investigate the differential outcomes of four approaches to the nursing care of post-hysterectomy patients. A refinement of earlier work by the investigator, this study employs dogs as subjects. It also seeks to determine the value of animal studies as they apply to investigations of nursing care.

The nursing approaches and dependent effects on the subjects' length of recovery, as well as postoperative comfort and discomfort variables, have been operationalized in behavioral terms. The subjects' behavior will be recorded both on sound-color movie film and on observer-recorded sheets during the experimental periods.

DATES: January 1973—June 1974.

PUBLICATIONS: None.

A119. Teaching Spinal Cord Injured People—An Exploratory Study (NU 00412).

INVESTIGATORS: Kirby, Nell A., R.N., M.S., Instructor, Division of Rehabilitative Medicine, Department of Surgery; and Siebens, Arthur A., M.D., Professor, Medicine and Surgery; Johns Hopkins School of Medicine, Baltimore, Maryland.

This study explores the knowledge needed, from the point of view of both patient and professional, to ensure the well-being of spinal cord injury patients in the areas of skin care, urinary and respiratory tract care, and bowel function. It explores and develops a variety of methods and materials through which nurses may provide patient teaching of this core body of knowledge.

DATES: September 1971—August 1973.

PUBLICATIONS: None.

A120. Structural Effects on Nursing Practice (NU 00413).

INVESTIGATOR: Thielbar, Gerald W., Ph. D., Assistant Professor, School of Nursing; and Assistant Professor, Department of Sociology; University of Wisconsin, Madison.

The study is designed to ascertain the structural conditions that foster patient-centered nursing care and to ascertain the effect of variable patient-centeredness

of care on patients. Interrelationships among social, structural, and social psychological variables that affect the delivery of nursing care are investigated.

DATES: June 1971—August 1973.

PUBLICATIONS: None.

A121. Nurse Autonomy and Patient Welfare (NU 00423).

INVESTIGATOR: Maas, Meridean L., R.N., M.A., Nurse Consultant, Iowa Soldiers' Home, Marshalltown, Iowa.

This study is designed to investigate the need for professional nurse autonomy within the health care organization to improve patient welfare. It is planned to develop an organizational model for the delivery of effective nursing care encompassing the concepts of professional autonomy and accountability.

DATES: January 1972—February 1974.

PUBLICATIONS: None.

A122. Nurse Awareness and Psychosocial Function in the Aged (NU 00419).

INVESTIGATOR: Putnam, Phyllis A., R.N., Ph.D., Assistant Professor of Nursing, School of Nursing, University of California, Los Angeles.

Trial methods were developed to channel nursing attention to observable aspects of the psychosocial functioning of the aged. Tools were constructed to assess on-ward psychosocial function ratings for patients, and personnel awareness of patient interest preferences.

DATES: January 1972—December 1972.

PUBLICATIONS: None.

A123. Factors Influencing Information-Disclosure to Nurses (NU 00426).

INVESTIGATOR: Wallston, Kenneth A., Ph.D., Assistant Professor of Nursing and Assistant Professor of Psychology, Vanderbilt University, Nashville, Tennessee.

This effort is to study the relationship of interpersonal trust between patient and nurse, and its effect on information disclosure. Measurement of individual difference factors that predispose persons to expect various consequences following disclosure of information are tested, together with ways of fostering interpersonal trust.

DATES: September 1971—August 1973.

PUBLICATIONS: None.

A124. Altering Patients' Responses to Threatening Events (NU 00430).

INVESTIGATOR: Johnson, Jean E., R.N., Ph.D., Associate Professor, School of Nursing, University of Wisconsin, Madison.

This study proposes to develop and test, through a series of experiments, a theory of structured expectations that hold promise for guiding decisions about the type of information that helps patients cope with diagnosis and treatment of their health problems. The study is planned so as to progress from laboratory experimentation to clinical trials, with sequential tests of hypotheses.

DATES: January 1972—December 1976.

PUBLICATIONS: None.

A125. Upper Extremity Positioning of Stroke Patients (NU 00434).

INVESTIGATOR: Schultz, Lucie, R.N., M.S., Associate Professor, Graduate Program, Medical-Surgical Nursing, Texas Woman's University, Houston.

This study is designed to test the effectiveness of a procedure for positioning the affected arm of stroke patients. The procedure is an attempt to prevent or minimize the development of classical deformities of the upper arm. A number of factors that may explain differential outcomes of the criterion measure will be pursued.

DATES: June 1972—August 1974.

PUBLICATIONS: None.

A126. Extra Tactile Stimulation of the Premature Infant (NU 00435).

INVESTIGATOR: Kramer, Marlene F., R.N., Ph.D., Associate Professor, School of Nursing, University of California, San Francisco.

This study plans to investigate the effects of extra tactile stimulation of premature infants to determine physical and social outcomes for infant development and for nursery care.

DATES: May 1972—June 1974.

PUBLICATIONS: None.

A127. A Study of Endotracheal Cuff Management (NU 00437).

INVESTIGATOR: Powaser, Mary M., R.N., Ph.D., Assistant Professor; Chezem, Joanne, R.N., M.S., Instructor; and Dunphy, Margaret C., R.N., M.S., Instructor; School of Nursing, University of Wisconsin, Madison.

The primary purpose of this study is to determine a method of endotracheal cuff management that results in the least tissue damage when all other variables are held constant, controlled, or measured. Three groups of mongrel dogs receiving differing types of care and outcomes will be assessed.

DATES: May 1972—April 1975.

PUBLICATIONS: None.

A128. Nursing Care in Prevention of Pressure Sores (NU 00444).

INVESTIGATORS: Verhonick, Phyllis J., R.N., Ed.D., Professor of Nursing and Director of Research, School of Nursing; Lewis, David W., Ph.D., Professor of Mechanical Engineering and Biomedical Engineering; and Goller, Herbert O., Ph.D., Assistant Professor of Mechanical Engineering; University of Virginia, Charlottesville.

The purpose of this study is to seek relationships in the clinical setting between the external etiological factors of pressure, temperature, moisture, and shearing force in "high-risk" versus "non-high-risk" decubitus ulcer patients.

DATES: June 1972—May 1974.

PUBLICATIONS: None.

A129. Nursing Care and Management of Pain in Patients (NU 00457).

INVESTIGATORS: Strauss, Anselm L., Ph.D., Professor of Sociology; and Glaser, Barney G., Ph.D., Associate Professor of Sociology; School of Nursing, University of California, San Francisco.

This study focuses upon the sociological aspects of nursing personnel's care of hospitalized patients in pain. To be investigated are the relationships between patient and staff, between staff and the patient's family, and among staff members themselves. Grounded theory, a methodological approach developed by the co-investigators in previous work, will be employed.

DATES: June 1972—August 1975.

PUBLICATIONS: None.

SECTION B

Recruitment, Selection, Education, and Characteristics of the Nurse Supply

(Research Projects B53—B64)

B53. Anticipatory Socialization and Chosen Work Locale (NU 00273).

INVESTIGATOR: Kramer, Marlene F., R.N., Ph.D., Associate Professor of Nursing, University of California, San Francisco.

This study is designed to test the effectiveness of a 3-year, supplemental teaching effort to assist the baccalaureate student to anticipate and deal with the inconsistencies she will encounter in the general hospital work situation. The investigator has long been aware of the conflict that arises when students who are shaped through educational preparation as professionals are faced with employment in a bureaucratic work setting. Through a series of lectures, seminars, and teaching-learning activities designed to help the student deal with anticipated problems, it is expected that differences between these students and members of a control group who have not experienced this approach will be measurable in terms of less "reality shock" when the actual work experience is encountered. The variables that will be measured as indicators of the relative success of the program will include work locale after graduation, role conception and role deprivation, and adaptive role strategy.

DATES: September 1970—February 1974.

PUBLICATIONS:

Kramer, Marlene. "Collegiate Graduate Nurses in Medical Center Hospitals," *Nursing Research*, 18: 196–210, May–June 1969.

Kramer, Marlene. "The New Graduate Speaks Again," *American Journal of Nursing*, 69: 1903–1907, September 1969.

Kramer, Marlene. "Credit for Competency," *American Journal of Nursing*, 70: 793–798, April 1970.

Kramer, Marlene. "Role Conceptions of Baccalaureate Nurses and Success in Hospital Nursing," *Nursing Research*, 19: 428–439, September–October 1970.

Kramer, Marlene; and Baker, Constance. "The Exodus: Can Nursing Afford It?" *Journal of Nursing Administration*, 1: 15–30, May 1971.

Kramer, Marlene. "Team Nursing—A Means or an End?" *Nursing Outlook*, 19: 648–652, October 1971.

Kramer, Marlene. "Professional–Bureaucratic Conflict and Integrative Role Behavior," *Communicating Nursing Research: Is the Gap Being Bridged?* pp. 56–71. Boulder, Colorado: Western Interstate Commission for Higher Education. 1971.

Benner, Patricia; and Kramer, Marlene. "Role Conceptions and Integrative Role Behavior of Nurses in Special Care and Regular Hospital Nursing Units," *Nursing Research*, 21: 20–29, January–February 1972.

Treat, Margaret; and Kramer, Marlene. "The Question Behind the Question," *Journal of Nursing Administration*, 11: 20–27, January–February 1972.

McDonnell, Catherine; and Kramer, Marlene. "What Would You Do?" *American Journal of Nursing*, 72: 296–301, February 1972.

Kramer, Marlene; McDonnell, Catherine; and Reed, John. "Self-Actualization and Role Adaptation of Collegiate Nurses," *Nursing Research*, 21: 111–123, April 1972.

B54. A Pilot Study of Nurse Mobility Patterns (NU 00328).

INVESTIGATORS: Yett, Donald E., Ph.D., Director of Human Resources Research Center and Assistant Professor of Business Economics and Finance, University of Southern California, Los Angeles.

This study investigated the geographic mobility of professional nurses, with particular emphasis on those nurses working in hospital settings. Mobility was viewed as employee–focused rather than institutionally focused, and hence considered mobility within as well as between institutions.

DATES: February 1969—January 1971.

PUBLICATIONS: None.

B55. Communication Styles Among Nurses (NU 00335).

INVESTIGATORS: Ingmire, Alice E., R.N., Ed.D., Professor of Nursing, University of California Medical Center, San Francisco; and Insel, Shepard A., Ed.D., Professor of Psychology and Director for Research, San Francisco State College, San Francisco, California.

This was an exploratory effort to determine the effects of a series of conference seminars on the communication and relationship styles of nurse in-service educators. Methods of assessing changes in interpersonal behavior were devised and applied to the participants in their respective home-hospital situations.

DATES: February 1969—August 1971.

PUBLICATIONS:

Ingmire, Alice E.; Insel, Shepard A.; Arnold, Betty; and Robinson, Bruce. *Communication and Relationship Styles Among Nurse Leaders.* San Francisco: San Francisco State College. 1971.

B56. Returns on Training by Type of Nurse and State (NU 00346).

INVESTIGATORS: Yett, Donald E., Ph.D., Director of Human Resources Research Center and Assistant Professor of Business Economics and Finance; and Deane, Robert T., A.B., C. Phil., Research Associate, Human Resources Research Center, University of Southern California, Los Angeles.

An expansion of findings and techniques developed during an earlier grant (NU 00277) explored which factors better indicate returns on nurse training, and offered comparison with other largely female populations. Special 1959 Census Bureau tabulations were employed.

DATES: June 1969—November 1971.

PUBLICATIONS: None.

B57. The Leadership Role of the Nurse (NU 00380).

INVESTIGATORS: Kruse, Lorane C., R.N., M.S., Assistant Director of Continuing Education, School of Nursing; and Stogdill, Ralph M., Ph.D., Professor of Management Science, and Director of Program for Research in Leadership and Organization; The Ohio State University, Columbus.

The objectives of this study were to obtain measures of the behaviors, expectations, and interpersonal relations of hospital administration, nursing supervisors, supervised nurses, physicians, and patients; and to relate these various measures in order to gain an understanding of the factors involved in effective supervision in the hospital situation.

DATES: April 1971—March 1973.

PUBLICATIONS: None.

B58. Rhythmic Correlates of Shift Work (NU 00403).

INVESTIGATOR: Felton, Geraldene, R.N., Ed.D., Research Nurse, Division of Nursing, Walter Reed Army Institute of Research, Walter Reed Army Medical Center, Washington, D.C.

This project investigated the effects of rotating work shifts upon patterns of sleep, daily body temperature cycles, and urinary excretion of sodium and potassium. Also studied was the length of time required for these factors to return to normal following resumption of "normal" shift of work.

DATES: September 1971—January 1973.

PUBLICATIONS: None.

B59. Improving Quality Care Through Performance Ratings (NU 00408).

INVESTIGATORS: Dyer, Elaine D., R.N., Ph.D., Chief, Research in Clinical Nursing, Veterans Administration Hospital, Salt Lake City, Utah.

Study objectives are to increase the quality of patient care and to improve staff development through the introduction of a new instrument for nurse performance counseling. Comparisons are made between hospitals using the methodology developed and matching hospitals that have not introduced the specified changes.

DATES: September 1971—August 1974.

PUBLICATIONS:

Dyer, Elaine D., and Peterson, Daryl E. "Safe Care of IPPB Machines," *American Journal of Nursing*, 71: 2163–2166, November 1971.

Dyer, Elaine D.; Monson, Mary A.; and Van Drimmelen, Jennie B. "Are Administrative Level, Age, and Educational Preparation Reflected in California Psychological Inventory Scores?" *Psychological Reports*, 29: 1111–1120, December 1971.

Dyer, Elaine D.; Monson, Mary A.; and Van Drimmelen, Jennie B. "Male Registered Nurse Differences on the California Psychological Inventory," *Psychological Reports*, 30: 956, Summer 1972.

Dyer, Elaine D.; Cope, Maxine J.; Monson, Mary A.; and Van D.immelen, Jennie B. "Can Job Performance Be Predicted From Biographical, Personality, and Administrative Climate Inventories?" *Nursing Research*, 21: 294–304, July–August 1972.

Dyer, Elaine D., and Peterson, Daryl E. "How Far Do Bacteria Travel from the Exhalation Valve of IPPB Equipment?" *Anesthesia and Analgesia*, 51: 516–517, July–August 1972.

B60. Interpersonal Feedback and Leadership in Small Groups (NU 00410).

INVESTIGATORS: McLaughlin, Frank E., R.N., Ph.D., Chief, Clinical Nursing Research, Veterans' Administration Hospital, San Francisco; and White, Eleanor, R.N., M.S., Lecturer; School of Nursing, University of California, San Francisco, California.

The study collected evidence upon which judgments could be made as to the degree of effectiveness of varying structures and modes of interpersonal feedback in a small group experience. The study examined the relationship between personal change, degree of member and leader satisfaction, and level of group functioning. It also evaluated the efficacy of varying leadership structures and modes of interpersonal feedback on graduate nursing students' cognitive-affective competence in group process, as demonstrated in tests using video-taped excerpts of group meetings.

DATES: September 1971—August 1972.

PUBLICATIONS:

McLaughlin, Frank E.; Davis, Mary L.; and Reed, John L. "Effects of Three Types of Group Leadership Structure on the Self-Perceptions of Undergraduate Nursing Students," *Nursing Research*, 21: 224–257, May–June 1972.

B61. Survey of Professionals Regarding Family Planning (NU 00416).

INVESTIGATORS: Werley, Harriet H., R.N., Ph.D., Director; Ager, Joel W., Ph.D., Associate Professor; and Rosen, Ruth A., Ph.D., Research Associate; Center for Nursing Research, College of Nursing, Wayne State University, Detroit, Michigan.

This study involves a family-planning survey of students and faculty in selected schools of nursing, medicine, and social work. Areas in the survey include attitudes, knowledge, professional roles, curriculum, preparation, and background. Data gathered will furnish a basis for evaluating the current preparation of professionals for roles in this area.

DATES: June 1971—December 1973.

PUBLICATIONS:

Werley, Harriet H.; Ager, Joel W.; Rosen, R. A. Hudson; and Shea, Fredericka P. "Professionals and Birth Control: Student and Faculty Attitudes," *Family Planning Perspectives*, 5(1): 42–49, Winter 1973.

B62. Realignment of Roles in Nursing (NU 00438).

INVESTIGATORS: Hummel, Patricia A., R.N., Ph.D., Assistant Professor; and Campbell, Emily, R.N., M.S., Associate Professor; School of Nursing, University of Wisconsin, Madison.

This conference grant is designed to bring together health professionals to clarify issues surrounding current innovations in nursing's role in the health care system, and to provide direction to and establish priorities for research and demonstration. The project focuses on the relationship between the clinical nurse specialist and individuals in expanded roles, and uses Delphi and nominal group techniques.

DATES: May 1972—August 1973.

PUBLICATIONS: None.

B63. Study of the U.S. Cadet Nurse Corps (NU 00443).

INVESTIGATORS: Kalisch, Beatrice J., R.N., Ed.D., Associate Professor of Nursing, School of Nursing; and Kalisch, Philip A., Ed.D., Assistant Professor of History and Assistant Professor of Curriculum; University of Southern Mississippi, Hattiesburg, Mississippi.

This study seeks to review the nursing profession as it has been influenced by the operation of the U.S. Cadet Nurse Corps, and to provide a factual body of knowledge about the Corps. It will present findings with direct relevance to the present and future roles of the nursing profession, and implications for identifying and studying major political, social, and economic forces impinging upon the nursing profession.

DATES: June 1972—August 1974.

PUBLICATIONS: None.

B64. Social Psychological Influences on Nurse Employment (NU 00456).

INVESTIGATORS: Cleland, Virginia S., R.N., Ph.D., Professor of Nursing, Center for Health Research; and Bass, Alan R., Ph.D., Associate Professor, Department of Psychology; Wayne State University, Detroit, Michigan.

This study seeks to identify variables related to the married nurse's decision to be gainfully employed. It is planned to examine differences among nurses who work full time, those who work part time, and those who are inactive. Also being examined are the work patterns of nurses and the differences among nurses at various organizational levels, in terms of psychological, attitudinal, and demographic characteristics. Factors of financial need and dependent children will be held constant as indicated.

DATES: June 1972—August 1974.

PUBLICATIONS: None.

SECTION C

Research Development

(Research Projects C27—C42)

C27. Research Development Grant (NU 00312).

INVESTIGATORS: Pitel, Martha, R.N., Ph.D., Professor and Chairman; Norris, Catherine M., R.N., Ed.D., Associate Professor; Butts, Stanley V., Ph.D., Assistant Professor; and Wingate, Anita, R.N., Ph.D., Assistant Professor; Department of Nursing Education, University of Kansas Medical Center, Kansas City, Kansas.

This 5-year program is designed to identify and develop research interests and competencies of faculty, through conferences, development and execution of pilot and exploratory studies, and released faculty time.

DATES: December 1968—November 1973.

PUBLICATIONS:

Norris, Catherine, ed. *Proceedings, First Nursing Theory Conference.* Kansas City: Kansas University Medical Center. October 1969.

Butts, Stanley V., and Shontz, F. C. "Invitation of Punishment by Excessive Drinkers in Treatment," *Journal of Consulting and Clinical Psychology,* 34: 216–220, February 1970.

Norris, Catherine, ed. *Proceedings, Second Nursing Theory Conference.* Kansas City: Kansas University Medical Center. April 1970.

Norris, Catherine, ed. *Proceedings, Third Nursing Theory Conference.* Kansas City: Kansas University Medical Center. August 1970.

Voda, Anna M.; Butts, Stanley V.; and Gress, Lucille D. "On the Process of Involving Nurses in Research." *Nursing Research,* 20: 302–308, July–August 1971.

C28. Development of Research Skills (NU 00314).

INVESTIGATORS: Arnstein, Margaret G., R.N., M.P.H., Dean (Nov. 1968–June 1972); and Diers, Donna, R.N., M.S.N., Dean (June 1972 to present); Yale University School of Nursing, New Haven, Connecticut.

This program is designed to provide a systematic framework within which to organize faculty research efforts toward the development of nursing theory, with particular emphasis on the improvement of patient care. Design and execution of exploratory studies, particularly in the areas of maternal-child health and mental health, are employed.

DATES: November 1968–October 1973.

PUBLICATIONS:

Johnson, Jean E.; Diers, Donna; and Slavinsky, Ann T. "Research Projects for Teaching Methodology," *Nursing Outlook*, 16: 27–30, November 1968.

Slavinsky, Ann T.; French, Nancy; and Heninger, George. "Training Nursing Personnel To Use a Rating Scale," *Perspectives in Psychiatric Care*, 7: 214–221, 1969.

Wald, Florence. "To Everything There Is a Season and a Time to Every Purpose," *The New Physician*, 18: 278–285, April 1969.

Wolfer, John A. "Concerning the Concern Over the Medical Model," *American Psychologist*, 24: 606–607, June 1969.

Kromberg, Carol; and Slavinsky, Ann. "Teaching Through Role-Play," *Journal of Psychiatric Nursing and Mental Health Services*, 3: 255–258, November–December 1969.

Diers, Donna. "Faculty Research Development at Yale," *Nursing Research*, 19: 64–71, January–February 1970.

French, Nancy H., and Heninger, George R. "A Short Clinical Rating Scale for Use by Nursing Personnel: I. Development and Design," *Archives of General Psychology*, 23: 233–240, September 1970.

Heninger, George R.; French, Nancy H.; Slavinsky, Ann T.; Davis, Linda; and Mueller, Peter S. "A Short Clinical Rating Scale for Use by Nursing Personnel: II. Reliability, Validity and Application," *Archives of General Psychology*, 23: 241–248, September 1970.

Wolfer, John A., and Davis, C. E. "Assessment of Surgical Patients' Preoperative Emotional Condition and Postoperative Welfare," *Nursing Research*, 19: 402–414, September–October 1970.

Strutzel, Elizabeth. "Psychiatric Aides and Patient Care," *ANA Clinical Sessions—Miami, 1970*, pp. 221–228. New York: Appleton-Century-Crofts. 1971.

Brown, Walter A.; Kromberg, Carol; and Slavinsky, Ann T. "Staff Attitudes Toward Research," *Journal of Psychiatric Nursing and Mental Health Services*, 9: 7–11, March–April 1971.

Wilson, Patience; and Fabric, Diane. "Teaching Community Health Workers," *Nursing Outlook*, 19: 337–339, May 1971.

Diers, Donna. "Finding Clinical Problems for Study," *Journal of Nursing Administration*, 2: 6, January–February 1972; 2: 8, March–April 1972; and 2: 8, May–June 1972.

Eisler, Jeanne; Wolfer, John A.; and Diers, Donna. "Relationship Between Need for Social Approval and Postoperative Recovery and Welfare," *Nursing Research*, 21(6): 520–525, November–December 1972.

C29. Research Conferences on Nurses in Research (NU 00322).

INVESTIGATORS: Gordon, Shirley, R.N., M.S. Ed., Director of Research and Statistics, and Jacobi, Eileen, R.N., Ed.D., Executive Director; American Nurses' Association; and Notter, Lucille E., R.N., Ed.D., Editor of *Nursing Research* and *International Nursing Research*.

A series of five nursing research conferences is designed to increase the competencies of nurse researchers in making formal presentations of investiga-

tions and in critically examining the content and methodologies, through formal and informal critiques, of these studies. The conferences provide opportunities for nurse researchers to explore, in a peer group, critical issues, technological advances, and research needs as a means of improving research skills, of stimulating nurses to do the needed research, and, ultimately, of improving the quality of nursing education and nursing practice.

DATES: January 1969—December 1973.

PUBLICATIONS:

American Nurses' Association. *Fifth Nursing Research Conference.* New York: The Association. 1969.

American Nurses' Association. *Sixth Nursing Research Conference.* New York: The Association. 1970.

American Nurses' Association. *Seventh Nursing Research Conference.* New York: The Association. 1971.

American Nurses' Association. *Eighth Nursing Research Conference.* New York: The Association. 1972.

C30. Institutional Nursing Research Development (NU 00341).

INVESTIGATORS: Bunge, Helen L., R.N., Ed.D., Dean (Jan. 1969—Feb. 1970); Prock, Valencia N., R.N., Ph.D., Dean (Feb. 1970—Feb. 1971); and Kolthoff, Norma J., R.N., Ph.D., Professor (Feb. 1971 to present). School of Nursing, University of Wisconsin, Madison.

This project is designed to develop a strong nursing research program with relevancy to nursing practice, systems for delivery of nursing service, educational preparation of nurses, and implementation of research findings. Methods include development of research climate within the School of Nursing and nursing service; promotion of use of research findings; identification of potential investigators; freed time for selected faculty and nursing service personnel; and provision of resource and consultant personnel.

DATES: January 1969—December 1973.

PUBLICATIONS: None.

C31. School of Nursing Research Development Grant (NU 00343).

INVESTIGATORS: Conant, Lucy H., R.N., Ph.D., Professor and Dean; Ennis, Ella G., R.N., Ph.D., Assistant Professor; and Semradek, Joyce A., R.N., M.S., Assistant Professor; School of Nursing, University of North Carolina, Chapel Hill.

This 5-year research development grant is intended to increase the competence and participation in research, of clinicians and faculty; to emphasize research in the programs of nursing education and service; and to integrate research into both teaching and practice.

DATES: January 1969—September 1974.

PUBLICATIONS: None.

C32. Research Development: Clinical Studies in Nursing (NU 00345).

INVESTIGATORS: Lohr, Mary M., R.N., Ed.D., Dean (June 1969—May 1972); Verhonick, Phyllis J., R.N., Ed.D. (June 1972 to present), Professor of Nursing and Director of Research; Brodie, Barbara M., R.N., Ph.D., Associate Professor; and Reres, Mary E., R.N., Ed.D., Associate Professor and

Coordinator, Psychiatric-Mental Health Nursing; School of Nursing, University of Virginia, Charlottesville.

This research development project is designed to provide, over a 3-year period, increasing sophistication among faculty members of the descriptive research process as it relates to clinical nursing practice. Involvement in ongoing research and design and execution of small pilot studies by individual faculty members are the primary methods employed.

DATES: June 1969—May 1974.

PUBLICATIONS:

Verhonick, Phyllis J. "Introduction to Research in Nursing," *Methodology of Nursing Studies: Course Report*, pp. 13–36. Washington: Pan American Health Organization. 1968.

Verhonick, Phyllis J. "The Nurse Monitor in the Patient-Care System," *Southern Medical Bulletin*, 56: 24–28, December 1968.

Crosby, Marian H. "The Status of Patient-Contact as an Experience in the Preparation of Teachers in the Area of Nursing of Children," *Nursing Research*, 18: 45–50, January–February 1969.

Verhonick, Phyllis J. "Teaching and Research in Nursing," *The Catholic Nurse*, 17: 34–39, June 1969.

Crosby, Marian H., and Connolly, Mary Grace. "Study of Mental Health and the School Nurse," *Journal of School Health*, 60: 373–378, September 1970.

Verhonick, Phyllis J. *Descriptive Study Methods in Nursing*. Washington: Pan American Health Organization. 1971.

Verhonick, Phyllis J. "Clinical Investigations in Nursing," *Nursing Forum*, 10: 80–88, January 1971.

Verhonick, Phyllis J. "Research Awareness at the Undergraduate Level," *Nursing Research*, 20: 261–265, May–June 1971.

Crosby, Marian H. "Control System and Children with Lymphoblastic Leukemia," *Nursing Clinics of North America*, 6(3): 407–414, September 1971.

Hazzard, Mary, ed. "A Systems Approach to Nursing," *Nursing Clinics of North America*, 6(3): 383–384, September 1971.

Reres, Mary E. "Systems Analysis: An Approach to Working with Personality Disorders," *Nursing Clinics of North America*, 6(3): 455–462, September 1971.

Reres, Mary E., and Robinson, Alice. *Your Future in Nursing*. New York: Rosen, Richards, Press, Inc. 1972.

C33. Research Development Program (NU 00347).

INVESTIGATORS: King, Imogene, R.N., Ed.D., Director (Oct. 1969—July 1972); Stevenson, Joanne, R.N., Ph.D., Associate Professor (Sept. 1972 to present); and Pierce, Lillian, R.N., Ph.D., Director of Nursing Research (Oct. 1969—July 1972), School of Nursing, The Ohio State University, Columbus.

This project has as its long-range goal the development of an institute for nursing research. The major focus is the development of new theories, the testing of postulated theories for nursing, and the use of theories from other disciplines to study nursing care, education, and administration.

DATES: October 1969—September 1974.

PUBLICATIONS: None.

C34. Encouragement of Research Involvement Among Faculty (NU 00358).

INVESTIGATORS: Sorensen, Gladys, R.N., Ed.D., Dean; and Krueger, Janelle C., R.N., Ph.D., Associate Professor; College of Nursing, University of Arizona, Tucson.

This project continued the stimulation and growth of faculty, within the University, that resulted from previous research development efforts, with emphasis on faculty involvement and productivity in research.

DATES: May 1970—April 1973.

PUBLICATIONS:

Krueger, Janelle. "Role Conflict Resolution Theory: An Empirical Investigation." *Communicating Nursing Research, Vol. 3, Methodological Issues in Research*, edited by Marjorie V. Batey, pp. 61–81. Boulder, Colorado: Western Interstate Commission for Higher Education. September 1970.

Putt, Arlene M. "One Experiment in Nursing Adults with Peptic Ulcers," *Nursing Research*, 19: 484–494, November–December 1970.

Sorensen, Gladys; Moidel, Harriet C.; Giblin, Elizabeth C.; and Kaufman, Margaret A. *Nursing Care of the Patient with Medical–Surgical Disorders*. New York: McGraw-Hill Co. 1971.

Bruegel, Mary A. "Preoperative Anxiety and Postoperative Pain," *Nursing Research*, 20: 26–31, January–February 1971.

Shields, Mary R. "Guidelines for Constructing Master-List, Six-Option 'Insight' Test Questions," *Nursing Outlook*, 19: 276–278, September 1971.

Krueger, Janelle C. "The Education and Utilization of Nurses: A Paradox," *Nursing Outlook*, 19: 676–679, October 1971.

Nield, Margaret. "The Effect of Health Teaching on the Anxiety Level of Patients with Chronic Obstructive Lung Disease," *Nursing Research*, 20: 537–540, December 1971.

Richards, Mary Ann Bruegel. "A Study of Differences in Psychological Characteristics of Students Graduating From Three Types of Basic Nursing Programs," *Nursing Research*, 21: 258–261, May–June 1972.

C35. Center for Nursing Research (NU 00361).

INVESTIGATORS: Werley, Harriet H., R.N., Ph.D., Director, Center for Health Research, College of Nursing; and Ager, Joel W., Ph.D., Associate Professor of Psychology; Wayne State University, Detroit, Michigan.

The objective of this investigation is the development of a Center for Nursing Research as an integral part of the College of Nursing, with development of nursing research in a manner consistent with the aims of the College and University for education, research, and community service.

DATES: May 1970—April 1975.

PUBLICATIONS:

Cleland, Virginia; and Hagen, F. "A Survey of Hospital Salaries and Fringe Benefits in the Greater Detroit Area," *The Michigan Nurse*, 44(5): 10–16, July 1971.

PUBLICATIONS (*Continued*)

Cleland, Virginia; Coss, Frank; Berggren, Helen; and MacInnis, Marisa R. "Prevention of Bacteriuria in Female Patients with Indwelling Catheters," *Nursing Research*, 20: 308–318, July–August 1971.

Cleland, Virginia; and Downs, Ann W. "Bacteriuria and Urinary Tract Infection in Infancy and Childhood: A Review," *Nursing Research*, 20: 131–139, July–August 1971.

Cleland, Virginia. "Sex Discrimination: Nursing's Most Pervasive Problem," *American Journal of Nursing*, 71: 1542 and 1547, August 1971.

Cleland, Virginia; and Zagornik, D. "Appropriate Utilization of Health Professionals," *Journal of Nursing Administration*, 1(6): 37–40, November–December 1971.

C36. Research Development Program (NU 00366).

INVESTIGATORS: Murphy, Marion I., R.N., Ph.D., Dean; Grand, Norma K., R.N., Ph.D., Associate Professor; and Robinson, Lisa, R.N., Ph.D., Assistant Professor; School of Nursing, University of Maryland, Baltimore.

This program is intended to improve quality nursing care to a specific hospital population, improve the learning environment for students, improve the service environment for young collegiate graduates and staff nurses, and design clinical studies in nursing through faculty participation in a staff development effort within a university hospital setting.

DATES: May 1970—August 1975.

PUBLICATIONS:

Robinson, Lisa. "Sick Doctors and Nurses Are Sick Human Beings," *American Journal of Nursing*, 71: 1728–1729, September 1971.

C37. Action Program in Nursing Research Facilitation (NU 00369).

INVESTIGATOR: Batey, Marjorie V., R.N., Ph.D., Professor, School of Nursing, University of Washington, Seattle.

This project is intended to strengthen and enhance the research activity and productivity of faculty of this school of nursing through the stimulation of a vigorous research subculture. Mechanisms employed include the establishment of a central research office, provision of materials, consultation, released time, and optimizing the total thrust of the setting through action research.

DATES: June 1970—August 1975.

PUBLICATIONS:

Batey, Marjorie V. "Bridging the Gap: Progress and Problems," *Communicating Nursing Research, Vol. 4, Is the Gap Being Bridged?* pp. 161–168. Boulder, Colorado: Western Interstate Commission for Higher Education. 1971.

Benoliel, Jeanne Q. "Social Consequences of Diabetes Mellitus in Adolescence," *Seventh Nursing Research Conference*, pp. 53–70. New York: The American Nurses' Association. 1971.

C38. Research Development Project (NU 00383).

INVESTIGATORS: Quinn, Mildred D., R.N., M.S., Dean; Snow, Mark E., Ph.D., Assistant Professor (March 1971—Sept. 1971); and Holley, Marie, R.N.,

Ph.D., Associate Professor (Sept. 1971 to present); College of Nursing, University of Utah, Salt Lake City.

The project is intended to provide an environment and facilities conducive to research activities, to encourage faculty members to initiate and participate in research projects, to make a concerted effort to promote research activities aimed at the acquisition of research grants and extended research investigations, to increase the quantity and quality of research publications by the College, and to encourage interdisciplinary approaches to nursing research.

DATES: March 1971—June 1974.

PUBLICATIONS: None.

C39. Measuring Quality of Nursing Care: A Think Conference (NU 00398).

INVESTIGATORS: Wandelt, Mabel A., R.N., Ph.D., Professor of Nursing; and Ager, Joel W., Ph.D., Professor of Psychology; Center for Nursing Research, Wayne State University, Detroit, Michigan.

Ten key investigators of the measurement of quality of health and nursing care met in a 2-day conference. Discussions focused on comparing data, instruments, and experiences, with the view of expediting integration of recent results of studies in the field, effecting coordination of efforts in future work, devising ways to accumulate readily comparable data, planning for testing instruments in varied settings, standardizing instruments, and delineating potentially effective directions for future work.

DATES: May 1971—August 1972.

PUBLICATIONS: None.

C40. Regional Program for Nursing Research and Development (NU 00415).

INVESTIGATORS: Berthold, Jeanne S., R.N., Ph.D., Nurse Researcher; and Elliott, Jo Eleanor, R.N., M.A., Coordinator; Western Interstate Commission for Higher Education, Boulder, Colorado.

This exploratory study investigates the feasibility of a regional approach to increase nursing research activities through more effective and efficient utilization of available resources, using a cooperative approach; and through the continued development of individual and institutional research potential. Specific mechanisms include individual consultation on research problems, small group work clinics on research projects, mutual utilization of facilities and equipment, and information storage and retrieval activities.

DATES: June 1971—September 1974.

PUBLICATIONS: None.

C41. Nursing Research Development Project (NU 00427).

INVESTIGATORS: Dunlap, Marjorie S., R.N., Ed.D., Dean; and Newman, Lucile F., Ph.D., Assistant Professor; School of Nursing, University of California, San Francisco.

This study is designed to promote clinically relevant research through the evaluation of current practices and new directions in clinical nursing research, innovation founded on basic research and investigation of areas of primary nursing responsibility, and promotion of improvement of in-hospital and community health care services delivery.

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DATES: January 1972—December 1975.

PUBLICATIONS: None.

C42. Conference To Plan a Collaborative Study of Fatigue (NU 00433).

INVESTIGATOR: Putt, Arlene M., R.N., Ed.D., Professor of Nursing, College of Nursing, University of Arizona, Tucson.

This study is concerned with a collaborative inter-university clinical research project concerned with fatigue and nursing intervention. Twelve nurses from eight universities sought to operationally define the construct of fatigue; determine indicators that are observable, measurable, and amenable to nursing; measure changes in indicators under prescribed exertion in healthy and ill subjects; and determine relationships between precise use of indicators and effective nursing care.

DATES: December 1971—June 1973.

PUBLICATIONS: None.

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